



PTO/SB/08a/b (07-05)

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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/827,054-Conf. #2370
				Filing Date	April 19, 2004
				First Named Inventor	David Elmaleh
				Art Unit	Unknown
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	62041(51588)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
MP	AA	US-6,437,103	08/20/2002	Babich et al.	no class or subclass listed

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
MP	BA	WO 97/19705	06/05/1997	Elmaleh		
	<del>BB</del>	<del>WO 2004/002184</del>	<del>10/28/2004</del>	<del>Forschungszentrum</del>	no translation	

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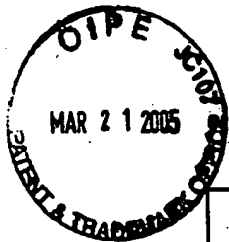
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MP	CA	Matsuura et al. "Metabolism of Deuterium-labeled Jasmonic Acid and OPC 8:0 in the potato plant (solanum tuberosum L.)" Bioscience, Biotechnology and Biochemistry 67(9): 1903-1907 (2003)	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Melissa Perreira/	Date Considered	11/29/2006
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PTO/SB/08a/b (08-03)

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MP	AA	US-4,202,902	05/13/1980	Carr et al.	no class or subclass listed

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		Country Code <sup>4</sup> -Number <sup>5</sup> -Kind Code <sup>6</sup> (if known)				

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
MP	CA	JONAS et al. "Simultaneous Evaluation of Fatty Acid Metabolism and Myocardial Flow in an Explanted Heart," The Journal of Nuclear Medicine 37 (12) pages 1990-1993, (1996).	
MP	CB	EISENHUT et al. "Trapping and Metabolism of Radioiodinated PHIPA 3-10 in the Rat Myocardium," The Journal of Nuclear Medicine 38 (12) pages 1864-1894 (1997).	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Based on Form PTO-14 (3/90)  LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	910000-2042.1	10/827,054
	APPLICANT	
	David R. Elmaleh	
	FILING DATE	GROUP
	April 19, 2004	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MP	AA	4,524,059	06/18/85	Elmaleh et al.			
MP	AB	4,323,547	04/06/82	Knust et al.			

FOREIGN PATENT DOCUMENTS no class or subclass listed

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
	AC						YES	NO

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MP	AD		Abendschein D.R. et al "Metabolism of beta-methyl[1-11C]heptadecanoic acid in canine myocardium" Int. J. Rad. Appl. Instrum. B (1987) 14(6): 579-85
	AE		Ambrose, K.R. et al "Evaluation of the metabolism in rat hearts of two new radioiodinated 3-methyl-branched fatty acid myocardial imaging agents" Eur. J. Nucl. Med. (1987) 12(10): 486-91.
	AF		Ambrose, K.R. et al "Effect of 3-methyl-branching on the metabolism in rat hearts of radioiodinated iodovinyl long chain fatty acids" Eur. J. Nucl. Med. (1987) 13(7): 374-9.
MP	AG		Antar, M.A. "Radiopharmaceuticals for studying cardiac metabolism" Int. J. Rad. Appl. Instrum. B. (1990) 17(1): 103-28.
	AH		Bianco, J.A. et al. "Effect of glucose and insulin infusion on the myocardial extraction of a radioiodinated methyl-substituted fatty acid" 1986, Eur. J. Nucl. Med. 12: 120-4.
MP	AI		Brown, M. et al. "Delineation of myocardial oxygen utilization with carbon-11-labeled acetate" Circulation (1987) 76(3): 687-96.
MP	AJ		Caldwell, J.H. et al. "Iodophenylpentadecanoic acid-myocardial blood flow relationship during maximal exercise with coronary occlusion." 1990. J. Nucl. Med. 31: 99-105.
MP	AK		Chien, K.R. et al. "In vivo esterification of a synthetic 125-I labeled fatty acid into cardiac glycerolipids" 1983. Am. J. Physiol. 245: H693-697.
	AL		DeGeeter, F. et al. "Relationship between blood flow and fatty acid metabolism in subacute myocardial infarction: a study by means of 99m-Tc-Setamibi and 123I-beta-methyl-iodo-phenyl pentadecanoic acid" Eur. J. Nucl. Med. (1994) 21(4): 283-91.
MP	AM		DeGrado, T.R. et al. "Quantitative analysis of myocardial kinetics of 15-p-[iodine-125]iodophenylpentadecanoic acid" J. Nucl. Med. (1989) 30(7): 1211-8.
	AN		DeGrado, T.R. et al. "beta-Methyl-15-p-iodophenylpentadecanoic acid metabolism and kinetics in the isolated rat heart" Eur. J. Nucl. Med. (1989) 15(2): 78-80.
MP	AO		Demaision, L. et al. "Myocardial metabolism of radioiodinated methyl-branched fatty acids" J. Nucl. Med. (1988) 29(7): 1230-6.
MP	AP		Dormehl, I.C. et al. "Planar myocardial imaging in the baboon model with iodine-123-15-(iodophenyl)pentadecanoic acid (IPPA) and iodine-123-15-(p-iodophenyl)-3-R,S-methylpentadecanoic acid (BMIPP) using time-activity curves for evaluation of metabolism" Nucl. Med. Biol. (1995) 22(7): 837-47.
MP	AQ		Elmaleh, D.R. et al ***inventor is an author*** "Myocardial extraction of 1-[11C] betamethylheptadecanoic acid" J. Nucl. Med. (1994) 35 (3): 496-503.

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10/827,054

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David R. Elmaleh

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	AR	Elmaleh, D.R. et al. ***this is the inventor*** "Comparison of 11C and 14C-labeled fatty acids and their beta-methyl analogs" <i>Int. J. Nucl. Med. Biol.</i> (1983) 10(4): 181-7.
MP	AS	Elmaleh, D.R. et al. "Myocardial imaging with 9-[Te-123m]telluraheptadecanoic acid" <i>J. Nucl. Med.</i> 22: 994-9.
MP	AT	Fagret, D. et al. "Kinetics of iodomethylated hexadecanoic acid metabolism in the rat myocardium: influence of the number and position of methyl radicals" <i>Int. J. Nucl. Med. Biol.</i> (1985) 12(5): 363-7.
	AU	Fagret, D., et al. "Iodomethylated fatty acid metabolism in mice and dogs" <i>Eur. J. Nucl. Med.</i> (1988) 14(12): 624-7.
MP	AV	Fink, G.D. et al. "Metabolism of beta-methyl-heptadecanoic acid in the perfused rat heart and liver" <i>J. Nucl. Med.</i> (1990) 31(11): 1823-30.
MP	AW	Fox, K.A. et al. "Efflux of metabolized and nonmetabolized fatty acid from canine myocardium. Implications for quantifying myocardial metabolism tomographically" (1975) <i>Circ. Res.</i> 57: 232-243.
MP	AX	Freundlieb, C. et al. "Myocardial imaging and metabolic studies with [17-123I]iodoheptadecanoic acid" <i>J. Nucl. Med.</i> (1980) 21(11): 1043-50.
	AY	Fritzberg, A.R. et al. "Iodophenylsulfonamide fatty acid analogs as potential myocardial imaging agents" <i>Int. J. Appl. Radiat. Isot.</i> (1982) 33(6): 451-3.
	AZ	Fujiyayashi, Y. et al. "Myocardial accumulation of iodinated beta-methyl-branched fatty acid analog, [125I](p-iodophenyl)-3-(R,S)-methylpentadecanoic acid (BMIPP), and correlation to ATP concentration—II. Studies in salt-induced hypertensive rats" <i>Nucl. Med. Biol.</i> (1993) 20(2): 163-6.
	BA	Fujiyayashi, Y. et al. "Basic studies on L-123-beta-methyl-p-iodophenylpentadecanoic acid (BMIPP) for myocardial functional diagnosis: effect of beta-oxidation inhibitor"
MP	BB	Fujiwara, S. et al. "Fatty acid imaging with <sup>123</sup> I-15-(p-iodophenyl)-9-R,S-methylpentadecanoic acid in acute coronary syndrome" <i>J. Nucl. Med.</i> (1999) 40(12): 1999-2006
MP	BC	Goldstein, R.A. et al. "External assessment of myocardial metabolism with C-11 palmitate in vivo". 1980. <i>J. Nucl. Med.</i> 21: 342-348.
MP	BD	Goodman, M.M. et al. "Effect of 3-methyl branching on the myocardial retention of radioiodinated 19-iodo-18-nonadecenoic acid analogues" <i>Int. J. Rad. Appl. Instrum. B.</i> (1989) 16(8): 813-9.
MP	BE	Goodman, M.M. et al. "Design, synthesis, and evaluation of omega-iodovinyl- and omega-iodoalkyl-substituted methyl-branched long chain fatty acids" <i>J. Med. Chem.</i> (1985) 28(6): 807-15.
MP	BF	Goodman, M.M. et al. "Synthesis and evaluation of radioiodinated terminal p-iodophenyl-substituted alpha- and beta-methyl-branched fatty acids" <i>J. Med. Chem.</i> (1984) 27(3): 390-7.
MP	BG	Grover-McKay, M. et al. "Identification of impaired metabolic reserve by atrial pacing in patients with significant coronary artery stenosis" 1986. <i>Circulation</i> 74:281-292.
	BH	Hasegawa, S. et al. "Detection of viable myocardium with p-iodophenyl-9-(R,S)-methylpentadecanoic acid in ischemic rat myocardium" <i>J. Nucl. Cardiol.</i> (2002) 9(5): 463-70.
	BI	Hashimoto, A. et al. "Prediction of left ventricular functional recovery in patients with acute myocardial infarction using single photon emission computed tomography with thallium-201 and iodine 123-beta-methyl-p-iodophenyl-pentadecanoic acid" ***article in Japanese*** <i>J. Cardiol.</i> (1995) 26(2): 59-68.
MP	BJ	Hashimoto, J. et al. "Scintigraphic evaluation of myocardial ischaemia using a new fatty acid analogue: iodine-123-labelled 15-(p-iodophenyl)-9-(R,S)-methylpentadecanoic acid (9MPA)" <i>Eur. J. Nucl. Med.</i> (1999) 26(8): 887-93.
MP	BK	Hock, A. et al. "Myocardial imaging and metabolic studies with [17-123I]iodoheptadecanoic acid in patients with idiopathic congestive cardiomyopathy" <i>J. Nucl. Med.</i> (1983) 24(1): 22-8.
MP	BL	Hoffman, E.J. et al. "Positron emission tomography: principles and quantitation". In: Phelps, M., Mazziotta, J., Schelbert, H., eds. <i>Positron emission tomography and autoradiography: principles and applications for the brain and heart</i> . New York: Raven Press; 1986: 237-286.
MP	BM	Hoffman, E.J. et al. "Quantitation in positron emission computed tomography: 4. Effect of accidental coincidences" 1981. <i>J. Comput. Assist. Tomogr.</i> 5: 391-400.
MP	BN	Hoffman, E.J. et al. "Transaxial tomographic imaging of canine myocardium with 11C-palmitic acid". 1977. <i>J. Nucl. Med.</i> 18:57-61.

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			David R. Elmaleh	
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MP	BO	Hull, F.E. et al. "beta-hydroxy fatty acid production during fatty acid oxidation by heart mitochondria" Recent Adv. Stud. Cardiac Struct. Metab. (1975) 7: 13-21.
MP	BP	Humbert, T. et al. "Intramyocardial fate of 15-p-iodophenyl-beta-methylpentadecanoic acid (IMPPA): is it a good tracer of fatty acid myocardial uptake?" Mol. Cell. Biochem. (1989) 88(1-2): 195-200.
	BQ	Isobe, N. et al. "The characteristics of myocardial fatty acid metabolism in patients with left ventricular hypertrophy" ***article in Japanese*** Kaku Igaku (1999) 36(7): 725-33.
	BR	Isobe, N. et al. "Usefulness of 201Tl/123I-BMIPP myocardial SPECT to evaluate myocardial viability and area at risk in acute myocardial infarction—comparison with 201Tl/99mTc-PYP dual SPECT" ***article in Japanese*** Kaku Igaku (1997) 34(4): 213-20.
	BS	Ito, Y. et al. "Relation between thallium-201/iodine 123-BMIPP substraction and fluorine 18 deoxyglucose polar maps in patients with hypertrophic cardiomyopathy" J. Nucl. Cardiol. (2000) 7(1): 16-22
MP	BT	Jadvar, H. et al. "SPECT and PET in the evaluation of coronary artery disease" Radiographics (1999) 19(4): 915-26
MP	BU	Jaffe, A.S. et al. "Enhancement of metabolism of jeopardized myocardium by nifedipine". 1987. Int. J. Cardiol. 15:77-89.
MP	BV	Jaszczak, R.J. "SPECT: state-of-the-art scanners and reconstruction strategies". In: Diksic, M., Reba, R.C., eds. Radiopharmaceuticals and brain pathology studied with PET and SPECT. Boca Raton: CRC Press; 1991: 93-118.
MP	BW	Jones, G.S. et al. "Synthesis and biologic evaluation of 1-[11C]-3,3-dimethylheptadecanoic acid" J. Nucl. Med. (1988) 29(1): 68-72.
MP	BX	Jones, G.S. et al. ***inventor is an author*** "Synthesis and biodistribution of a new 99mtechnetium fatty acid" Nucl. Med. Biol. (1994) 21(1): 117-23.
	BY	Kawamoto, M. et al. "Value of fatty acid imaging using 123I-beta-methyl-iodophenyl pentadecanoic acid (BMIPP) to assess viability of infarcted myocardium" ***article in Japanese*** Kaku Igaku (1991) 28(9): 1081-9
	BZ	Kawamura, Y. et al. "Evaluation of branched chain fatty acid, BMIPP [beta-methyl-omega-(p-iodophenyl)-pentadecanoic acid] for myocardial imaging—basic experiments" Kaku Igaku (1988) 25(11): 1221-7.
MP	CA	Keriel, C.M. et al. "The intramyocardial fate of [1-14C]palmitate, iodopalmitate, and iodophenylpentadecanoate in isolated rat hearts. A contribution to the choice of an iodinated fatty acid as a tracer of myocardial metabolism" J. Mol. Cell. Cardiol. (1990) 22(12): 1379-92.
	CB	Kihara, K. et al. "Clinical study on myocardial imaging with beta-methyl-p-123I-iodophenylpentadecanoic acid in patients with mitochondrial myopathy" ***article in Japanese*** Kaku Igaku (1992) 29(4): 453-61.
	CC	Kim, Y. et al. "Detection of impaired fatty acid metabolism in right ventricular hypertrophy: assessment by I-123 beta-methyl iodophenyl pentadecanoic acid (BMIPP) myocardial single-photon emission computed tomography" Ann. Nucl. Med. (1997) 11(3): 207-12.
MP	CD	Klein, M.S. et al. "External assessment of myocardial metabolism with [1-11C] palmitate in rabbit hearts" 1979. Am. J. Physiol. 237: H51-H58.
MP	CE	Knabb, R.M. et al. "The temporal pattern of recovery of myocardial perfusion and metabolism delineated by positron emission tomography after coronary thrombolysis". 1987 J. Nucl. Med. 28:1563-1570.
MP	CF	Knapp, F.F. et al. "Pharmacokinetics of radioiodinated fatty acid myocardial imaging agents in animal models and human studies" Q. J. Nucl. Med. (1996) 40(3): 252-69
	CG	Knapp, F.F. et al. "Iodine-123-labeled fatty acids for myocardial single-photon emission tomography: current status and future perspectives" Eur. J. Nucl. Med. (1995) 22(4): 361-81.
	CH	Knapp, F.F. et al. "New Radioiodinated methyl branched fatty acids for cardiac studies" Eur. J. Nucl. Med. (1986) 12 Suppl: S39-44.
	CI	Kobayashi, H. et al. "Fatty acid metabolic and perfusion abnormalities in hypertrophied myocardium assessed by dual tracer tomography using thallium-201 and iodine-123-beta-methylpentadecanoic acid" ***article in Japanese*** J. Cardiol. (1994) 24(1): 35-43.
MP	CJ	Kropp, J. et al. "Pharmacokinetics and metabolism of the methyl-branched fatty acid (BMIPP) in animals and humans" J. Nucl. Med. (1999) 40(9): 1484-91.
MP	CK	Kulkarni, P.V. et al. "Radioiodinated tracers for myocardial imaging" Semin. Nucl. Med. (1990) 20(2): 119-29.
MP	CL	Kurata, C., et al. "Influence of blood substrate levels on myocardial kinetics of idine-123-BMIPP" J. Nucl. Med. (1997) 38(7): 1079-84

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MP	CM	Lin, Q. et al. "Effects of configuration on the myocardial uptake of radioiodinated 3(R)-BMIPP and 3(S)-BMIPP in rats" <i>J. Nucl. Med.</i> (1997) 38(9): 1434-41
MP	CN	Links, J.M. "Physics and instrumentation of positron emission tomography". In: Frost, J.J., Wagner, H.N., eds. <i>Quantitative imaging: neuroreceptors, neurotransmitters, and enzymes</i> . New York: Raven Press; 1990: 37-50.
MP	CO	Livni, E. et al. ***inventor is listed as 2 <sup>nd</sup> author*** "Radioiodinated beta-methyl phenyl fatty acids as potential tracers for myocardial imaging and metabolism" <i>Eur. Heart J.</i> (1985): 6 Suppl. B: 85-9.
MP	CP	Livni, E. et al. ***inventor is an author*** "Beta-methyl[1- <sup>11</sup> C]heptadecanoic acid: a new myocardial metabolic tracer for positron emission tomography" <i>J. Nucl. Med.</i> (1982) 23(2): 169-75.
MP	CQ	Livni, E. et al. ***inventor is an author*** "(3H/14C) beta-methylheptadecanoic acid subcellular distribution and lipid incorporation in mouse heart" <i>Lipids</i> (1990) 25(4): 238-40.
	CR	<del>Machulla, H. et al. "Biochemical concept and synthesis of a radioiodinated phenyl fatty acid for in vivo metabolic studies of the myocardium" 1980. <i>Eur. J. Nucl. Med.</i> 5: 171-173.</del>
MP	CS	Machulla, H.J et al. "Comparative evaluation of fatty acids labeled with C-11, Cl-34m, Br-77, and I-123 for metabolic studies of the myocardium: concise communication" 1978. <i>J. Nucl. Med.</i> 19: 298-302.
MP	CT	Miller, D.D. et al. "New Radionuclides for cardiac imaging" <i>Prog. Cardiovasc. Dis.</i> (1986) 28(6): 419-34.
	CU	<del>Mori, H. et al. "Relationship between ventricular arrhythmias and myocardial fatty acid metabolism in patients with coronary heart disease: evaluation using iodine-123 beta-methyl-p-iodophenyl-pentadecanoic acid ***article in Japanese*** <i>J. Cardiol.</i> (1999) 34(2): 61-9.</del>
	CV	<del>Mori, H. et al. "Relationship between ventricular arrhythmias and myocardial fatty acid metabolism in patients with coronary heart disease: evaluation using iodine-123 beta-methyl-p-iodophenyl-pentadecanoic acid ***article in Japanese*** <i>J. Cardiol.</i> (1999) 34(2): 61-9.</del>
MP	CW	Myers, D.W. et al. "Substrate use in ischemic reperfused canine myocardium quantitative considerations". 1987 <i>Am. J. Physiol.</i> 253:107-114.
MP	CX	Nakajima, K. et al. "Myocardial fatty acid imaging with 123I-labelled 9-methyl-branched pentadecanoic acid (9MPA) using SPET" <i>Nucl. Med. Commun.</i> (1998) 19(9): 839-47.
MP	CY	Nishimura, T et al. "Assessment of myocardial viability by using newly developed myocardial SPECT imaging" <i>Jpn. Circ. J.</i> (1992) 56(6): 603-7.
MP	CZ	Nishimura, T et al. "beta-methyl-p(123I)-iodophenyl pentadecanoic acid single-photon emission computer tomography in cardiomyopathy" <i>Int. J. Card Imaging</i> (1999) 15(1): 41-8.
	DA	<del>Nishimura, T et al. "Prognosis of hypertrophic cardiomyopathy: assessment by 123I-BMIPP (beta-methyl-p-(123I)iodophenyl pentadecanoic acid) myocardial single photon emission computed tomography" <i>Ann. Nuc. Med.</i> (1996) 10(1): 71-8.</del>
MP	DB	Nishimura, T. et al. "Newly developed myocardial imaging by using single photon emission computer tomography (SPECT)" <i>Jpn. Circ. J.</i> (1990) 54(3): 328-32.
	DC	<del>Nishimura, T. et al. "Fatty acid myocardial imaging using 123I-beta-methyl-iodophenylpentadecanoic acid (BMIPP): comparison of myocardial perfusion and fatty acid utilization in canine myocardial infarction (occlusion and reperfusion model) <i>Eur. J. Nucl. Med.</i> (1989) 15(7): 341-5.</del>
	DD	<del>Nishimura, T. et al. "Fatty acid myocardial imaging using 123I-beta-methyl iodophenyl pentadecanoic acid (BMIPP): comparison of myocardial blood perfusion and fatty acid metabolism in canine myocardial infarction (occlusion and reperfusion model) <i>Kaku Igaku</i> (1988) 25(12): 1403-15.</del>
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MP	EI	Sorenson, J.A. et al. <i>Physics in nuclear medicine</i> , 2nd ed. Philadelphia: W.B. Saunders; 1987. Chapters 19-20, and 22. <del>no page numbers listed</del>		
MP	EJ	Stork, G. et al. "Total Syntheses of (-)-Histronicotoxin and (-)-Histronicotoxin 235A" 1990. <i>J. Am. Chem. Soc.</i> 112: 5875-5876.		
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	EQ	Taniguchi, M. et al. "Separate evaluation of beta-methyl fatty acid uptake and perfusion in rat myocardium" ***article in Japanese*** <i>Kaku Igaku</i> (1989) 26(12): 1523-30.		
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